

Innovative design of battery storage box





Overview

Why is a lightweight battery pack enclosure important?

The lightweight battery pack enclosure design is desirable for maintaining a long-range and having good safety. Xiong et al. studied a novel procedure that significantly reduced the weight of the battery pack by improving its crashworthiness.

How can battery packaging design improve battery safety?

A robust and strategic battery packaging design should also address these issues, including thermal runaway, vibration isolation, and crash safety at the cell and pack level. Therefore, battery safety needs to be evaluated using a multi-disciplinary approach.

How to design a battery pack?

The dimensions of battery packs also require a design to space evaluation. The occupied volume of the pack should be suitable for the related car chassis. As previously mentioned in Section 1, CTP and CTC are two different strategies for packaging design. These approaches differ from the modular one.

Why is a lightweight battery pack important?

Both researchers studied lightweight anti-collision structures, reducing the weight of the battery pack. A lightweight battery pack is required to reduce weight and avoid significant distortion after the impact. The lightweight battery pack enclosure design is desirable for maintaining a long-range and having good safety.



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